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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/601,078	
	Filing Date	June 20, 2003	
	First Named Inventor	Kenneth R. Jones, et al.	
	Art Unit	2631	
	Examiner Name	Unknown	
Total Number of Pages in This Submission	5	Attorney Docket Number	1033-SS00380

ENCLOSURES (Check all that apply)		
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Jeffrey G. Toler; Reg. No. 38,342
Signature	
Date	5-4-2004

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I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.		
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THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Kenneth Roger Jones, et al.

Title: TRANSCEIVER WITH UPPER LEVEL COMMUNICATION STATUS
INDICATOR AND METHOD OF TROUBLESHOOTING

App. No.: 10/601,078

Filed: 06/20/2003

Examiner: Unknown

Group Art Unit: 2631

Atty. Dkt. No.: 1033-SS00380

Confirmation No.: 7047

Application Processing Division
Customer Correction Branch
Commissioner for Patents
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REQUEST FOR CORRECTED FILING RECEIPT

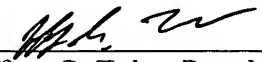
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Please make the indicated corrections as shown on the enclosed red-lined Filing Receipt.
Please correct the title, as shown on the first page of the patent application. Please contact me at the
below-listed telephone number if you have any questions or need additional information.

Respectfully submitted,

5-4-2004

Date



Jeffrey G. Toler, Reg. No. 38,342
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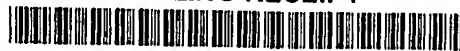
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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/601,078	06/20/2003	2631	900	1033-SS00380	5	19	3

34456
 TOLER & LARSON & ABEL L.L.P.
 PO BOX 29567
 AUSTIN, TX 78755-9567



CONFIRMATION NO. 7047
 UPDATED FILING RECEIPT



OC000000011497297

Date Mailed: 12/15/2003

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Kenneth Roger Jones, Cool, CA;
 Brian Gonsalves, Antioch, CA;

TOLER LARSON & ABEL

Assignment For Published Patent Application

SBC, Inc.;

DEC 18 2003

REC'D

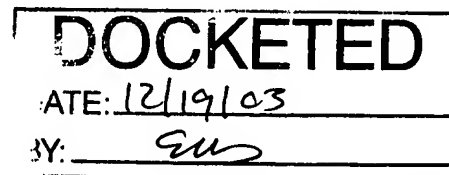
Domestic Priority data as claimed by applicant**Foreign Applications**

If Required, Foreign Filing License Granted: 09/15/2003

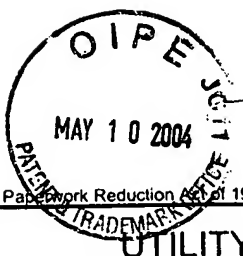
Projected Publication Date: 12/23/2004

Non-Publication Request: No

Early Publication Request: No

**Title**

~~Transceiver~~ with upper level communication status indicator and method of troubleshooting
 Transceiver



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PTO/SB/05 (05-03)

Approved for use through 04/30/2003. OMB 0651-0032

U.S. Patent and Trademark Office. U.S. DEPARTMENT OF COMMERCE

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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	1033-SS00380
First Inventor	Kenneth Jones, et al.
Title	TRANSMITTER WITH UPPER LEVEL COMMUNICATION STATUS INDICATOR AND METHOD OF TROUBLESHOOTING
Express Mail Label No.	EV 335896229 US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:	Commissioner for Patents Mail Stop Patent Application P.O. Box 1450 Alexandria VA 22313-1450
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- ☐ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
- ☐ Applicant claims small entity status.
See 37 CFR 1.27.
- ☒ Specification [Total Pages **15**]
(preferred arrangement set forth below)
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
- ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets **5**]
 - ☐ Newly executed (original or copy)
 - ☐ Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 18 completed)
 - ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
- ☒ Application Data Sheet. See 37 CFR 1.76

- ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
- Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 - ☐ Computer Reader Form (CRF)
 - Specification Sequence Listing on:
 - ☐ CD-ROM or CD-R (2 copies); or
 - ☐ Paper
 - ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

- ☐ Assignment Papers (cover sheet & document(s))
- ☐ 37 CFR 3.73(b) Statement of Power of Attorney (when there is an assignee)
- ☐ English Translation Document (if applicable)
- ☐ Information Disclosure Statement (IDS)/PTO-1499
- ☐ Preliminary Amendment
- ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
- ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
- ☐ Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
- ☐ Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.:

Prior application information: Examiner _____ Art Unit: _____
For CONTINUATION OF DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

☒ Customer Number or Bar Code Label **34456** OR ☐ Correspondence address below
(Insert) (here)

Name	TOLER, LARSON & ABEL, LLP				
Address	5000 Plaza On The Lake, Suite 265				
City	Austin	State	TX	Zip Code	78746
Country	USA	Telephone	(512) 327-5515	Fax	(512) 327-5254

Name (Print/Type)	Jeffrey G. Toler	Registration No. (Attorney/Agent)	38,342
Signature		Date	6-20-2003

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**TRANSCEIVER WITH UPPER LEVEL COMMUNICATION STATUS
INDICATOR AND METHOD OF TROUBLESHOOTING**

Kenneth R. Jones
Brian A. Gonsalves

BACKGROUND

Field of the Invention

[1001] The present disclosure relates to digital subscriber line (DSL) systems, and more particularly, to techniques for implementation and maintenance of DSL systems.

Description of the Related Art

[1002] Determining the cause of technical problems in consumer digital subscriber line (DSL) service has been a challenging obstacle in DSL deployments. Problems can vary from noise on the line, improper customer premise equipment (CPE) set up, network problems, and the like. Even after initial deployment, intermittent outages occur for many providers.

[1003] DSL is a distance-sensitive technology. As the DSL line connection's length increases, the signal quality decreases and the connection speed goes down. The limit for DSL service is about 18,000 feet (5,460 meters), though for speed and quality of service reasons many access providers place a lower limit on the permitted distances for the service.

[1004] Additionally, DSL implementation is complex due to multiple protocols used in the transfer of packets between end-user computer and a source or destination site. Any improper setup or connection can cause communication to completely fail. Even if all protocols are properly configured and communication is occurring, a particular DSL